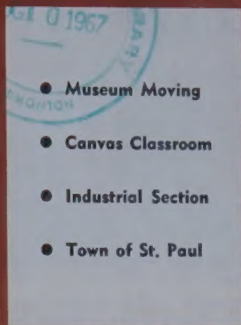




## WITHIN OUR BORDERS



AN ALBERTA  
GOVERNMENT  
PUBLICATION



- Museum Moving
- Canvas Classroom
- Industrial Section
- Town of St. Paul

AUGUST, 1967



*Dinosaur models first occupants in vast display area*

## Dinosaurs, Hummingbirds Join In Move To Display Areas In Provincial Museum

**M**OVING DAY ARRIVED recently for the Provincial Museum and Archives of Alberta, Provincial Secretary's department, and workmen began the task of transporting artifacts and displays into their new eight million dollar home.

The modern, fireproof, air-conditioned building is situated on the 13-acre site of the old Government House, which is being preserved as an historic building.

The new structure is Alberta's official Confederation Centennial Project, erected by the province with the assistance of a 2½-million dollar grant from the federal government. Under similar plans provincial museum buildings are being erected in three other provinces. The Alberta museum is the first to be completed.

Two hundred and fifty thousand square feet are taken up by the new building, which is

second to none in its display and working facilities. The humidity-controlled galleries are designed to allow the greatest flexibility in display arrangements. It is even possible to raise or lower the ceiling of a gallery should that become desirable.

One of the finest collections in western Canada will be housed in the new museum. Everything from hummingbirds to giant dinosaurs and from a spinning wheel to Indian items and pioneer documents will be on view.

Collecting display items and planning and producing the displays has been going on for the past four years. Now begins the task of setting up the actual displays. The museum will be officially opened later this year. Admission will be free.



*Ready for new home.*



# Canvas Classroom And Forested School Yard Provide Training Site For Survey Assistants

A CAMP IN THE WOODS is school this summer for a group of young men being trained as survey assistants in an unusual program directed by the Division of Vocational Education of the Alberta Department of Education.

The course was started specifically to meet a need for trained men, brought to the attention of the Department of Education by the survey industry. Industry and vocational education officials together drew up a six-week training program.

The course could easily have been conducted in a city, but since its graduates were needed mostly for field camps in isolated areas, it was decided the ideal training environment would be found in a camp setting.

With co-operation of the Department of Lands and Forests, a site was selected overlooking Little Sundance Creek, on a logging road 20 miles northwest of Edson. A kitchen-dining trailer was moved in, two-man tents provided for sleeping quarters, and tents set up for classroom and equipment storage.

The camp setting provides a bonus in addition to the formal training, by giving a working knowledge of field practice, in the setting up and maintaining a camp, hygiene, sanitation and "house-keeping," power-saw operation and maintenance, radio operation, clothing selection, axe handling and maintenance, bush living, survival practices and organizing technical offices for field calculations under isolated conditions.

Trainees were required to have a minimum Grade X education, and be in good physical health. Aptitude tests were given to select 16 trainees from 40 applicants. Eight are students fresh from high school, for whom the Province of Alberta pays all tuition and \$35 per week training allowance. The other eight qualified under the federal Occupational Training of Adults program. The federal government pays their tuition fees, and for three who qualify by virtue of having been out of school for three or more years, also pays the training allowance. The remaining five receive their training allowance through the provincial program. The training allowance is a minimum of \$35 per week, but could rise according to marital status to as high as \$88. Each trainee from his allowance pays \$2.50 per day for board.

The training course at the camp is intended to be as extensive as the trainees can absorb, providing about 112 hours of classroom theory and 152 hours of field practice. Instrument work includes training with level, transit and theodolite, and instruction in sun and star shots. By the end of the course the young men are expected to be competent with survey crews, as chainmen or better, to understand what a specific survey job is intended to do, and how it is done.

To give an added importance to their training, the students as a final project are to do an actual survey around nearby Sundance Lake to provide information for the Department of Lands and Forests.

To make provision for the possibility of field practice time being washed out by bad weather, the course was set up on seven-day week basis, with two free weekends scheduled in the six weeks. The two instructors also are available in the evenings to give additional coaching to any of the students who wish it.

The results of this summer's course will be assessed by the Division of Vocational Education with a view to the possibility of one or two similar courses being held next year.



## New Trailer Shows Crafts Of Alberta

REQUESTS FOR A VISIT by the Crafts of Alberta trailer have been received from communities throughout the province by the Arts and Crafts Division of the Cultural Development Branch, Alberta Provincial Secretary's Department.

Dozens of communities throughout the province will be visited by the 80-foot long tractor-trailer display unit in the course of its exhibition season which began August 4th with a visit to Fort Saskatchewan. The new display, just added to the Division's exhibition and exposure program this year, is carefully designed to explain and illustrate the growing interest in the crafts in Alberta and tell of the achievements of Alberta craftsmen.

More than 300 exhibit items are housed in the trailer, ranging from metal and leather work through creations in ceramics and batik to screen printed textiles, photography and sculpture. In addition to the finished products, the display includes various portrayals of the processes involved in the crafts.

The travelling exhibition gallery is staffed by personnel from the Arts and Crafts Division who are competent to answer questions on all aspects of the crafts in Alberta.

Not only is the display unit completely mobile, but it is equipped with its own power plant and water system so that it need place no demands on the facilities of the community.

The trailer display augments the continuing travelling exhibition program which, in the past year, offered three dozen exhibitions which were requested by 157 communities and viewed by close to 80,000 persons.

In the past six years this program of travelling exhibitions has carried Alberta arts and crafts to more than 400,000 viewers.

Canvas classroom is the study centre for trainees at a survey assistants' course in a camp setting northwest of Edson. The students pitched the tent, made the rustic table and cut their own log stools. Below, left, instructor Don Thompson gives Mike McBryan of Edmonton and Don Ankerstein of Thorsby, pointers on the use of a transit. At right, two crews run a level circuit along a slash line through the woods.

"Within Our Borders" is a publication designed to acquaint the people of the Province with the administration of the Alberta Government.

There are no restrictions in the republishing of any material but a credit line would be appreciated.

Notice of change of address should be accompanied by the mailing address on the front of this issue. No charge is made for "Within Our Borders" and new readers are invited to forward their name and address to "Within Our Borders," Room 246, Highways Building, Edmonton.

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# Triangular Safety Devices Approved; One To Be Required On Slow Vehicles

APPROVAL BY THE ALBERTA government of two triangular safety devices has been announced.

The government, through the Highway Traffic Board, has approved the inclusion of a red hollow triangle as an advance warning for a stopped vehicle on a highway. The triangles may be used in the same way as red flags, flares, lamps, lanterns or reflectors. They must be placed at least 100 feet in front of and behind a stalled or stopped public service or commercial vehicle, and must be visible from a distance of 500 feet.

The red triangle is more and more becoming the advance warning signal for stalled vehicles throughout the world.

Approval has been given for the use of a solid

triangle as a warning marker for slow-moving vehicles and equipment, or any animal-drawn vehicle or machinery operating at speeds of less than 25 miles per hour on any highway. The symbol may be used now, and it will be required on all such vehicles on and after January 1, 1968.

The solid triangle shall be a base-down equilateral triangle of fluorescent yellow-orange film with a base of 14 inches and a height of 12 inches, and with reflective red strips around the outside. It should be placed as high as possible on the equipment.

The regulation was originally made effective April 1, 1967, but by an amendment the compulsory use of this slow-moving vehicle sign will now be effective January 1, 1968.



Fluorescent triangle warns of slow-moving vehicle.

## Government Branches Now In New Quarters

SEVERAL PROVINCE OF Alberta government offices have moved recently to new quarters. They include:

The Apprenticeship-Tradesmen's Qualification Branch of the Department of Labour (The Apprenticeship Board) from the Terrace Building, Edmonton, to 10119-111 St. New telephones, Edmonton Local Information 482-5402; Administration, Director, 482-1662.

The Farm Purchase Credit Board of the Department of Agriculture has moved from the Legislative Building to Room 206 of the 100th Avenue Building, 10405 100 Ave. New telephone 429-2576.

Government offices in Claresholm have moved into the new Provincial Building.

Lethbridge offices of the Alberta Department of Public Welfare, from the Provincial Administration Building to the Houghton Building, 515-7th St. South. New telephone 327-4501.

The Calgary offices of the Public Trustee, Adult Probation, Securities Commission, and Audit, of the Attorney General's department, have moved to the Natural Resources Building, 205-9th Ave. S.E.



Lieutenant Governor Grant MacEwan administers the oath of office to two new members of the Alberta cabinet. Hon. Edgar H. Gerhart, M.L.A. for Edmonton North West, was appointed Minister of Municipal Affairs, a position his father held before him, and Hon. R. A. Speaker, M.L.A. for Little Bow, was appointed Minister without Portfolio. At the same time, Hon. A. J. Hooke became Minister of Public Welfare, Hon. Raymond Reiersen became Minister of Education as well as Minister of Labour, and Provincial Treasurer A. O. Aalborg assumed additional duties as Minister of Telephones.

## Coming Events

### AUGUST

1	Centennial "Indian Day" .....	Bassano
1	"Whooper Up" Day .....	Strathmore
1	Red Deer Exhibition Parade .....	Red Deer
1-5	Red Deer Fair & Exhibition & Historic Railway Lines Display .....	Red Deer
1	Hanna & District Agricultural Society Centennial Garden Competition .....	Hanna
1-2	Barrhead Parade & Rodeo .....	Barrhead
2	Centennial Day .....	Beiseker
2-3	Donnelly, Falher & Girouxville Agricultural Fair and Centennial Celebrations .....	Girouxville
2	"Golden Centennaires" .....	Medicine Hat
2-3	Annual Stampede .....	High Prairie
2-5	Arabian Horse Show .....	Calgary
3	National Youth Orchestra .....	Edmonton
3	"Fiesta Nite" — Main Street .....	Berwyn
3-5	Vermilion Agricultural Fair .....	Vermilion
3-6	Banff Indian Days .....	Banff
3-6	4th Annual "Pow Wow Days" Festivities .....	Lac la Biche
4	National Youth Orchestra .....	Calgary
4	Centennial Celebrations & Official Opening of Centennial Projects .....	Carmangay
4-5	North Peace Stampede at Lac Cardinal Grounds (near Grimshaw) .....	Berwyn
5	Centennial Copter Project Visits .....	Medicine Hat

5	Banff School of Fine Arts — Opera .....	Edmonton
5	Official Opening of Centennial Wading Pool .....	Falher
5	Opening of Centennial Park .....	Sylvan Lake
5	Opening Centennial Park .....	Sylvan Lake
5-6	Centennial Homecoming Reunion .....	Entwistle
5-6	Dedication of Centennial Centre and Celebrations .....	Irma
5-6	Rocky Light Horse Association Point Show and Gymkhana .....	Rocky Mountain House
5-7	Two Hills and District Days .....	Two Hills
5-7	David Thompson Cavalcade .....	Rocky Mountain House
5-7	Jasper Rodeo .....	Jasper
5-7	David Thompson Highway Cavalcade Kootenay Plains Family Camping Weekend .....	Central Alberta
6-11	Trail Rides of the Canadian Rockies .....	Banff
6-7	Annual Jamboree Days .....	Slave Lake
7	Dedication of Confederation Park .....	Calgary
7	Special Civic Holiday Program .....	Calgary
7	Alberta International Air Show — "Centennaires" .....	Red Deer
7-9	County Fair Days — Military Pageant and Exhibits .....	Grande Prairie
7-9	Canrose Agricultural Fair .....	Canrose
7	Annual Sports Day .....	Irma
7	Banff School of Fine Arts — Musical .....	Edmonton
7-8	Agricultural Fair and Rodeo and Centennial Celebrations .....	Athabasca

(Continued on Page 4)



# Coming Events

(Continued from Page 3)

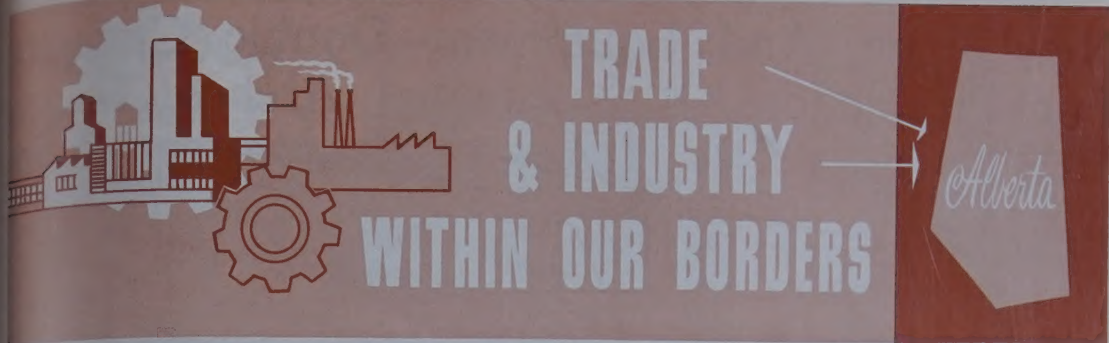
## AUGUST

7	Centennial "Copter Visit" —	Medicine Hat
	Chamber of Commerce	
7	Firemen's Centennial Sports Day	Swan Hills
8	Banff School of Fine Arts Musical	Calgary
8-10	Canadian National Enterprise Regatta	Lethbridge
9	Banff School of Fine Arts — Drama	Edmonton
10-11	Agricultural Fair	Battle River
10-12	Agricultural Fair	Olds
10-12	Agricultural Fair	Wetaskiwin
10-13	Centennial Historical Trail Ride and Corn Festival	Medicine Hat
11-12	Red Deer Horticultural Show	Red Deer
11	The Dallas Baptist Foundation of Texas Choir	Grande Prairie
11-12	Centennial Horticultural Show	Medicine Hat
12	Agricultural Fair	Lougheed
12-13	Flower Festival	Millarville
12-13	Open Golf Tournament	Fort Saskatchewan
13-18	Trail Rides of the Canadian Rockies	Banff
13	Baptist Church Choir of Dallas, Texas	Edmonton
13	Short Rally — N.A.S.C.C.	Edmonton
14	Alberta Military Pageant	Red Deer
14-15	Chuck Wagon Races and Rodeo	Whitecourt
15	Provincial Band Concert	Lethbridge
15-16	Edmonton Horticultural Society 59th Annual Flower Show	Edmonton
15-16	Agricultural Fair	Pincher Creek
16	Coronation Town and Country Fair	Coronation
16	Agricultural Fair	Peace River
16	Swim Meet — Interplayground Centennial Competition	Red Deer
17	Horticultural Societies Centennial Flower Show	Stony Plain
17-19	4th Annual Lethbridge Gladiolus and Square Dance Festival	Lethbridge
18-19	Flower Show — Canadian Nursery Trade Association	Calgary
18	Kiwanis Convention	Lethbridge
18	Agricultural Fair	Wildwood
18-19	Priddis-Millarville Agricultural Fair	Millarville
19-22	Youth Calvinist Federation of North America Convention	Edmonton
19-Sept. 2	Annual Fall Race Meet	Edmonton
19	Historical Pageant by Canadian Armed Forces	Vermilion
19	Centennial Fair and Stampede Day	Claresholm
19-27	Western Farm Bureau	Banff
19	Agricultural Fair	Darwell
19	Agricultural Fair	Willingdon
19-20	Centennial Day Celebrations	Rycroft
20	Confederation Caravan	Rycroft
20	12 Hour Festival	Rycroft
20	Sports Car Gymkhana — S.C.T.	Edmonton
21	Armed Forces Pageant	Drumheller
21	Agricultural Fair	Mayerthorpe
22	Confederation Caravan	Fairview
23	Confederation Caravan	Grimshaw
23	County Fair	Ponoka
23	Agricultural Fair	Vauxhall
24	Confederation Caravan	Peace River
24-25	Military Pageant	Jasper
24	Stettler Flower Show	Stettler
24	"The Travellers"	Peace River
25-26	Annual Horticultural Show	Calgary
25-27	Confederation Caravan	Lloydminster
26	Confederation Caravan	High Level
26	Governor-General's Canadian Derby	Edmonton
26-28	United Church AOF's Men's Club 5th National Convention	Banff
26	Horse Show and Centennial Celebrations Opening of Centennial Park	Stavely
26	Annual Golf Tournament	Sedgewick
26-27	Ladies' Club Championship Golf Tournament	Lethbridge
27-Sept. 3	Annual Oilmen's Golf Tournament — 15th	Banff
27	Open Golf Tournament	Bowden
27	Hillclimb — N.A.S.C.C.	Edmonton
28-Sept. 2	Pyjama Game, University Students	Lethbridge
28	Official Opening of Centennial Project — Bear Creek Park	Grande Prairie

## SEPTEMBER

1	Provincial Government Ceremonies	Edmonton
1	Special Alberta Day Ceremonies	Calgary
1	Opening of Centennial Building	Edmonton
2	Speed-to-Spare Handicap	Edmonton
2	Square Dance Jamboree	Stettler
2	International Brotherhood of Magicians Conv.	Edmonton
2-3	Regional Sports Car Races, N.A.S.C.C.	Edmonton
2-4	Labour Day Golf Tournament	Lethbridge
3	Boat Racing	Slave Lake
3-4	Coinerama - Coin Club	Medicine Hat
4	Centennial Sports Spectacular	Red Deer
4	Sports Day - Children	Edson
4-5	Armed Forces Pageant	Medicine Hat
4-9	1967 Centennial Totem Pole Golf Tournament	Jasper
5	Centennial Invitational Swim Meet	Red Deer
6-9	International Symposium Devonian System Convention	Calgary
7	Confederation Caravan	Ft. Vermilion
7-9	White Knight Group - Gaslight Follies	Edmonton
7-10	Doodlebug Golf Tournament	Banff
8	Confederation Caravan	Meaning
9	Confederation Caravan	McLennan
9	Centennial Day	High Level
9	Centennial Loop Sports Car Rally - National Event	Calgary
10	Confederation Caravan	High Prairie
10	Sports Car Gymkhana - C.S.C.C.	Calgary
10-11	Pacific Northwest Trade Association Convention	Edmonton
10-12	Alberta Motor Association Convention	Jasper
11-12	North American Securities Administrators Association Convention	Banff
12	Confederation Caravan	Slave Lake
13	Confederation Caravan	Athabasca
13	100 Years of Musical Comedy	Medicine Hat
13-16	World Council of Young Men's Service Clubs	Edmonton
13-17	British Israel World Federation (Canada) Conv.	Edmonton
14	Confederation Caravan	Lac La Biche
14-15	100 Years of Musical Comedy	Lethbridge
14-16	Canadian Business Aircraft Association Conv.	Calgary
14-16	East Rotary Horse Show	Lethbridge
14-21	Sovereign Grand Lodge IOOF	Calgary
15	Confederation Caravan	Cold Lake
15-17	Alberta Association of Insurance Adjusters Conv.	Jasper
16	Confederation Caravan	Grand Centre
16-17	Loop Rally - C.S.C.C.	Calgary
16-18	MAC 14 Theatre - 100 years of Musical Comedy	Calgary
17-19	Confederation Caravan	Bonnyville
17-19	Nurses Aide Association Convention	Red Deer
17-22	International Convention - IOOF and Rebekahs	Calgary
18-20	Edmonton Allied Arts Council - Anne of Green Gables	Edmonton
19	New York Philharmonic Orchestra	Calgary
20-21	Confederation Caravan	St. Paul
22	Confederation Caravan	Vilna
22	New York Philharmonic Orchestra	Edmonton
23	Confederation Caravan	Smoky Lake
23	Musical - Anne of Green Gables	Calgary
24	Confederation Caravan	Redwater
24	Lutheran Hour Rally	Edmonton
24	Devon Time Trials - N.A.S.C.C.	Edmonton
24-28	Alberta Medical Association Convention	Calgary
25	Centennial White Heather Concert	Medicine Hat
26	Festival Canada - 100 Years of Musical Comedy	Drayton Valley
26	Lethbridge Music Club Recital	Lethbridge
26-27	Confederation Caravan	Westlock
27	National Rugby Match - Alta. vs. England	Calgary
27	Hadassah Fashion Show	Lethbridge
28	Touring Young Artists	Lethbridge
28	Canadian Natural Gas Processing Assn. Conv.	Calgary
28-29	Confederation Caravan	Barrhead
29	Canadian Society of X-Ray Technicians	Lethbridge
30	Alberta Provincial Convention	Morinville
30	Confederation Caravan	Red Deer
30	Alberta Model Railroad Assoc. Fall Meet	Red Deer
30	100 Years of Musical Comedy	Peace River
30-Oct. 1	Klondike Trail Rally - E.L.C.C.	Edmonton





# Battered Books Restored To Useful Service

**T**ATTERED, LOOSENEED BOOKS of all shapes and sizes enter the new plant of Universal Bindery Ltd., 9850 - 60 Avenue, Edmonton, by the truck load. When they leave the shop a short time later, they are restored to better-than-new condition, ready to give long service to schools and libraries throughout Alberta.

The Universal Bindery, in less than nine years of existence, has established a solid field for its services in maintaining rugged, serviceable volumes for large-scale book users, notably municipal and school libraries, universities, hospitals and school district textbook rental plans.

C. (Bert) Rose, who immigrated to Edmonton in 1951 from Europe, started the business in July, 1955. He drew on his experience as a book-binding apprentice in Germany and two years with a bookbindery in Edmonton to launch a modest one-man business in a small leased shop behind a store on 124 Street and 107 Avenue.

For a few months, business was slow, but bigger jobs than the separate school board, a public library, then a university order to bind periodicals into volumes brought a need for increased space. In February, 1959, the company moved to basement quarters at Whyte Ave. and 108 Street and three years later occupied 2,000 square feet of leased space at 10372 - 60th Avenue. In two more years this space had doubled, and by January, 1967, the company had built and occupied its bright new premises, containing 6,200 feet of shop space with \$150,000 worth of equipment, and 800 square feet of office space.

The new building is situated on a half-acre lot, with ample room for an addition to double the size of the plant when required.

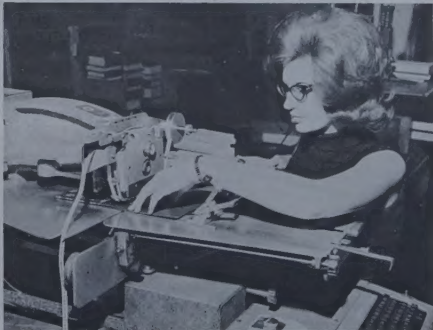
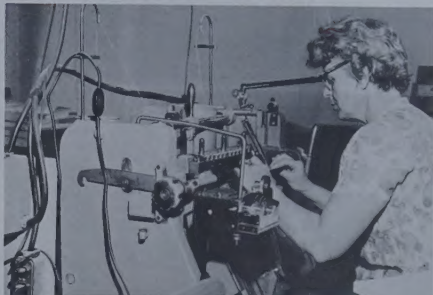
The company was incorporated in July, 1964, as a limited company, with Mr. Rose as president.

Universal Bindery, (Saskatchewan) Ltd. was started in Saskatoon two years ago, as a branch operation, and in January this year it became a separate company, a partnership, with Mr. Rose and Leo Davis, plant foreman and sales representative of the Edmonton establishment.

Books received for restoration have the old covers ripped off and discarded, and are checked to make sure no pages are missing. The old glue and stitching is ground off the back of the pages by machine to leave a smooth surface, and the sections are firmly re-glued and resewn together. This procedure results in a book more firmly-bound than when it was new.

In separate production-line processes, volumes are trimmed on a cutter, backed and rounded, and reinforcement applied. Then new coverboards, spines and covers are prepared and glued and titles printed. Finally the new covers are put in place, glued and bonded together by the application of timed heat and nine tons of pressure. The finished books are inspected and packed for shipment.

The finished book may have a custom-designed cover, one of scores of stock design and color combinations, or, in many cases, a replica of the



Old books are transformed to new on a production-line system at Universal Bindery Ltd. After old covers and backing are removed, page sections are oversewn at a machine by Mrs. Ruth Strosser, top left. Books are trimmed on automatic Schneider cutter by Ron Henry, centre left. Covers are titled by Marlene Gellert, bottom left, at keyboard-operated lettering machine or by Ron Wagner, top right, at air-operated lettering press. Completed volumes are checked and prepared for shipment by Shirley Gillis, bottom right.

original publisher's cover. The latter is obtained by mail from a New York company, which has a catalogue of 20-to-30 thousand titles for which it will supply duplicates of original covers.

During much of the year the company's staff of 15 is occupied with books from libraries, hospitals or other institutions. However, for 10 weeks during the summer the plant works two or three shifts per day with extra help, for this is "textbook time" when school books from all

parts of the province, used in book rental plans, are put into shape for the new term opening in September.

To prepare for this rush, large numbers of standard covers are designed and printed; boards are cut to size, and materials are stocked to speed the flow of books through the plant.

On an annual basis, the plant processes about one book per minute, or a total of about 150,000 per year.



# New Plant And Equipment Double Capacity For Production Of Laminated Arches, Beams

TREES DON'T GROW large enough, and lumberyards can't supply one, but if someone wanted an unbroken length of two-by-four extending from Edmonton to Calgary, equipment at the new Western Archrib Structures Limited glulam plant in Edmonton could manufacture one.

In practice, the machinery is busy manufacturing endless lengths of Douglas fir timber, but a "flying cut-off" saw slices them into predetermined lengths to be formed into the laminated arches, beams and trusses for which Western Archrib is known throughout Canada.

Western Archrib opened its new \$500,000 glulam plant at 4315 - 92 Avenue this summer, and the 43,000-square-foot plant and its new equipment more than double the previous production capacity of the company.

The main factors in the increased capacity are two new machines which represent an investment of \$200,000.

The first is a "finger-jointing" machine, so called because it cuts both ends of the two-inch and one-inch fir lumber in a zigzag series of deep notches, which fit into the serrated end of the next piece like interlocking fingers. The same machine glues the joint, and when two pieces are fitted together the resulting joint is stronger than the wood itself.

The other major piece of equipment which speeds production is a radio-frequency glue curing machine. When the glued joints are fitted together, the continuous length of timber feeds through the metal tunnel of the curing machine at a rate of 100 feet per minute. In its 12-second pass through the radio frequency waves, the glue on each joint is cured under 800 pounds pressure. Normal air-drying used to require approximately eight hours.

As the joined strip of lumber emerges from the curing machine, a microswitch measures the required lengths, the "flying cut-off" saw locks to the board and cuts it through in a split second.

The required number of timber lengths are then glued on the sides, clamped together in straight form for beams or trusses, or curved by massive clamps to form laminated arches.

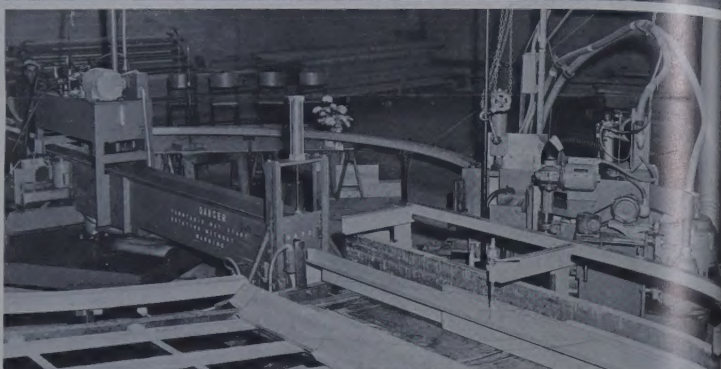
When the glue has cured, final planing and sanding of exposed edges is done by machines to give a clean, smooth surface. For shipping, the arches or beams are wrapped in protective paper to prevent marring or soiling, for in use the beams usually are finished in clear or stain varnish to show the beauty of the wood grain.

Western Archrib Structures Limited was organized in 1951 by Cecil Fargey, president, and his son, James Fargey, general manager. Its market extends now from British Columbia to Ontario, served by branch offices in Winnipeg and London, Ontario.

There is no practical limit to the size of beams or trusses that can be produced in the present plant, Mr. Fargey says. Some of the current production is of straight beams containing 33 laminations of 2" by 12" fir.

In the biggest job the company has undertaken it is producing 71 curved spans, each are in two sections, to cover a total span of 170 feet, for potash storage buildings at Lanigan, Saskatchewan. One of the buildings, the arch giving a clear width of 170 feet and a height of 78 feet, will be 840 feet long. That's a pillar-free covered area large enough to contain 42 tennis courts, spaced four feet apart, space to store a lot of potash.

The company contributes much to the Western Canadian economy, for the raw material used is all of western origin. The Douglas fir comes from British Columbia, and the glue is manufactured by Monsanto Canada Limited and Pacific Resins Limited.



The massive arch at top, extending to the figures of the men in the background, is only one half of a 170-foot span being fabricated at Western Archrib Structures Limited in Edmonton. Second picture shows the ingenious "finger jointing" machine, which serrates and glues both ends of the Douglas fir boards to join the pieces. Cut-to-length sections are glued on both sides in the machine in lower left, "laid up" in the number of laminations required and clamped together, as shown at right, to form the truss or beam.

## Claresholm Provides Industrial Airport

THE TOWN OF CLARESHOLM, Alberta, has purchased the former R.C.A.F. Station, three miles west of town, and it is now known as the Claresholm Industrial Airport.

The site is served by a spur line from the Canadian Pacific Railway and an all weather paved road. Calgary Power and Canadian Western Natural Gas supply power and gas to the existing industries, and they are prepared to service any new industries.

Water and sewer facilities are provided by the Town of Claresholm. The airport has a 310,000 gallon reservoir and pumping facilities are maintained to supply 1700 gallons of water per minute.

A permanent caretaker employed by the town lives at the site, and fire protection is given by

the twenty-man Claresholm Volunteer Fire Department, which is equipped with modern fire fighting equipment.

Alberta Government Telephones has completed laying new underground cable to provide existing industry and future industry with private telephone lines.

The planning of the industrial subdivision has been prepared by the Provincial Planning Board. Six heavy duty runways, 3,000 feet long, are in good condition and it is the intention of the town to maintain the site as an airport. Refueling facilities for private aircraft are maintained by the Claresholm Flying Club.

Claresholm is a modern community of 2,585 persons, located on No. 2 highway 70 miles from Calgary and 60 miles from Lethbridge.



# Heavy-Duty Carriers Built For Industrial Use

WHEN UNIVERSAL CARRIER Manufacturing Ltd. of Edmonton builds a heavy-duty industrial truck, it is expected to be sturdy enough to run for 15 years or more, and to outlast the equipment it is designed to carry.

In operation since March, 1966, in its present location, 7817 Coronet Road, the company has completed more than a score of heavy-duty carriers. They range from units for oilfield service rigs, to 50-ton gravel crushers, and the latest production of four transit-mix cement trucks.

The transit-mix carriers are claimed to be the first designed exclusively for Western Canadian transit-mix purposes, and as such they have a number of features aimed at safety or convenience. One is a specially-designed safety lock to prevent the accelerator at the rear of the equipment being used for unloading, unless the drive mechanism of the truck is in neutral position. This prevents the truck from moving unexpectedly and causing injury or damage.

Operators of the units enjoy comfort many a motorist would envy in his private car. The cabs, high off the ground, offer all-around visibility, and are reached by air-operated retractable steps. The driver's seat is on torsion-bar suspension, adjustable by a lever to the weight of the driver and to the desired degree of stiffness.

Canadian manufacturers supply most of the material and accessories required in Universal's construction. Only the Diesel engines, automatic transmissions and rear axle assemblies are imported from the United States.

Other material such as steel, tubing, hoses, fittings, wiring, come from suppliers in Alberta, British Columbia and eastern Canada. Even the tires, as large as the 16-ply 1800 by 22.5 Firestone front tires, are manufactured in Alberta plants. The cabs, declared by Universal officials to be "the best industrial truck cabs on the market," come from Western Truck Body Manufacturing Ltd., in Edmonton.

Universal Carrier was reorganized to enter its present field in 1966, after operating for two years manufacturing "swamp buggies" for the



oil industry. This was considered too limited an area. In the present partnership are Robert Fearon, Estman Miller and Erwin Reder. Mr. Fearon is manager and Mr. Reder foreman of the plant, which operates with five employees.

The single-bay shop is too cramped for convenient working around the massive units being constructed, but there are no immediate plans to build a company-owned plant. Ingenuity has gone into building the necessary equipment and fitting it into the present space. Suitable commercial units could not be found, so the men devised and fabricated heavy-duty hoists, grinders and air compressor to meet their own needs.

In the first part-year in business, from March to the end of 1966, gross sales amounted to \$86,000. The first half of 1967 brought a gross far exceeding this amount, and prospects are for full-year sales exceeding a quarter-million dollars.

Use of the services of the provincial government's Alberta Commercial Corporation to provide an immediately-available inventory of parts and materials is being considered, as delays in receiving necessary orders have occasionally held up assembly work.

Ruggedness is built into industrial carriers. Steering assembly is being adjusted and Diesel engine installed in upper pictures. Below is a completed oilfield service rig.



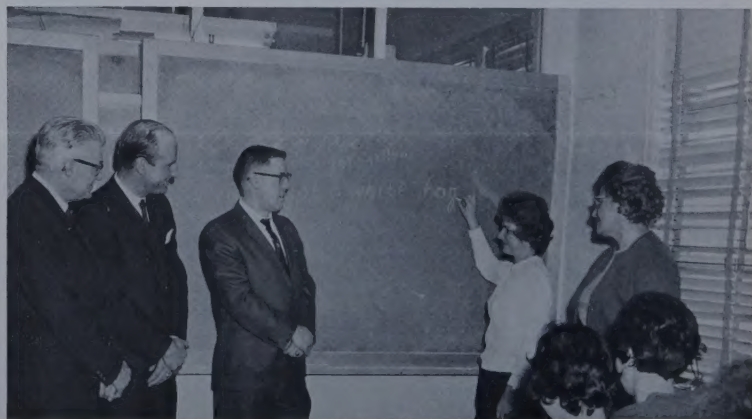
## Workers In Factory Are Taught English

LEARNING TO SPEAK and write English in a factory atmosphere isn't typical, but it has proved highly successful for a group of power sewing machine operators who are all recent immigrants to Canada.

This unusual industrial training program was developed by the Alberta Department of Education, the federal government and the Great Western Garment Company of Edmonton. It was designed to improve the ability of garment workers, who were also new Canadians, to communicate on the job with supervisors and fellow workers, and to read and follow instructions.

Three days a week for six weeks, fifteen girls from Turkey, Poland, France, Portugal, Italy, China and Greece, left the factory production-line for two-hour intervals to work at blackboards and desks to master a basic vocabulary of 850 English words. Class time, with an added bonus of full pay for the girls, was geared to the familiar - shopping for food and clothing, care of the home and the person, and factory routines and safety.

With the assistance of a highly-skilled language teacher, illustrated work books and texts, trainees repeated words and sentences out loud, singly and together, until pronunciation and phrasing improved. In spite of the fact that most had families and homes, the girls found



With only thirty-six hours of basic English, a GWC employee, who recently emigrated from Poland, completes a sentence in English for O. W. Allen, Citizenship Judge; E. M. Mertens, GWC Production Manager; C. B. Virtue, Industrial Training Supervisor, Alberta Department of Education and Mrs. A. G. Bayly, class instructor.

time to complete assigned lessons in their workbooks.

When the last class day arrived and graduates were presented with certificates from Alberta's Division of Vocational Education, the girls demonstrated their ability to read from textbooks, to follow spoken instructions and write simple

sentences in English on the blackboard. Representatives from the company, the provincial government and the Citizenship Court, who took part in the ceremony and witnessed the demonstration, encouraged the trainees to build on the English language groundwork fostered successfully in a factory atmosphere.



# SURVEY OF THE TOWN OF ST. PAUL

## LOCATION

Part of Sections 4, 5, 8, 9-58-9W4 in Census Division No. 12. This is 138 miles northeast of Edmonton on Highway 38, 135 miles via Highways 16 and 36 via Vegreville, and at Mile 127 on the Edmonton-Bonnyville-Heinsburg branch of the Canadian National Railway.

## ALTITUDE

2,130 feet. Latitude 53/54; Longitude 111/17.

## TEMPERATURE

Summer average 53°F. Winter average 19°F. Annual average 32°F.

## PRECIPITATION

Average annual rainfall (25 years) 10.71 inches; average annual snowfall 40.8 inches; average annual precipitation 14.79 inches.

## POPULATION

Town, 1967, 3,655; trading area, 1966, over 25,000.

## GEOLOGY AND SOIL

The bedrock underlying the glacial mantle of the St. Paul district is of the Belly River formation of the Upper Cretaceous age. This stratum, in east-central Alberta, is made up of a series of inter-laid sandstone, shale and clay, of grey, green, brown and yellow. Coal seams occur in many areas.

St. Paul district includes three soil zones—Black, Degraded Black and Grey Wooded.

In the Black soil region, annual precipitation averages 17 to 19 inches, the black to dark brown surface horizon is 12 to 14 inches deep, and the soils are the most fertile in the province. A high percentage of the zone is arable and wheat of fairly good quality can be grown, but mixed farming, with crop rotation and fertilizer, is desirable.

The Degraded Black soil region's annual precipitation ranges from 12 inches in the north to 20 in the south. The soil profile is quite mixed, ranging from nearly black to grey. The surface horizons average 10 to 12 inches, and the soils are usually not as rich as those of the black zone. Mixed farming that includes legumes in the crop rotation, supplemented by fertilizer when required, is advisable.

In the Grey Wooded areas, precipitation averages about 12 inches in the north to 20 in the south, temperatures are cooler and the growing season shorter. Muskies and sedge bogs are common. The surface horizon is quite thin and the soils are relatively less fertile because of leaching. This is mixed farming areas in which legumes, hay and coarse grains are the most desirable crops.

## HISTORY

St. Paul originated in 1896, when missionary Father Lacombe obtained from the Dominion Government four townships for a Metis settlement. Each Metis was to receive tax-free land and assistance to buy machinery. The settlement, named St. Paul de Metis, was placed under control of the Oblate Fathers, who built a school, flour and lumber mills and invited Metis of Canada and the United States to take advantage of the opportunity. However, few responded, and by 1899 there were only 270 persons in the colony. Ottawa finally approved a suggestion that white settlers be allowed to enter.

In April, 1909, modern St. Paul was born when 700 homestead applications were filed in two days at the land office in Edmonton. In a few days the population of the settlement grew to 1,800.

St. Paul de Metis received village status in 1912, and was incorporated as a town December 15, 1936, when "de Metis" was omitted from the name.

## LIVING CONDITIONS

St. Paul is the religious, cultural, health and trading centre of a large, prosperous mixed farming district. The district is studded with lakes



St. Paul's Main Artery, 50th Avenue.

which provide sport and commercial fishing for whitefish, pickerel, pike and perch. Camping, boating and bathing facilities are available, and there is good hunting for ducks and geese and some deer.

Sports facilities in the town include an enclosed hockey and skating rink accommodating 2,000, a covered curling rink with 6 sheets of artificial ice, and an exhibition ground for horse racing and field sports, a nine-hole golf course and a ski tow.

There are 850 homes, 90 per cent owner-occupied.

Churches include the Roman Catholic Cathedral, seat of the Diocese of St. Paul; Ukrainian Catholic, Pentecostal, United, Anglican, Greek Orthodox, Baptist.

Offices of federal, provincial and municipal departments are situated in the town.

Health services include the St. Therese Hospital with 75 beds and 18 bassinets; the North Eastern Alberta Health Unit with a staff of 19; four medical doctors, two dentists, three drug stores, one chiropractor, one optometrist, three veterinarians and one funeral director.

## ADMINISTRATION

The town is governed by a mayor elected for a two-year term and six councillors, two elected each year for a three-year term. Town affairs are administered by the secretary-treasurer in accordance with council policy.

## LAW ENFORCEMENT

Royal Canadian Mounted Police detachment, Sergeant, Corporal and 10 Constables; four members under contract to provide town policing. Three Justices of the Peace; one resident Magistrate; Court House—Probation Officer; Inspection Service Branch inspector; Fish and Wildlife Inspection Branch, three enforcement officers; Public Welfare officers.

## BUILDING REGULATIONS

Plans for new buildings, repair or removal must be approved by council and conform to National Building Code. Electrical installations must comply with the Alberta Electrical Protection Act, sanitary installations with provincial health regulations, and gas installations with the town bylaw. All homes are inspected regularly by the local gas inspector.

## FIRE PROTECTION

The fire brigade consists of a chief, assistant and 23 volunteers who practise weekly, and a 23-man auxiliary brigade. Equipment includes a 1967 pumper with 625 gpm capacity and one triple combination fire pumper, with 500 gallon water tank; both fully equipped. There are 30 fire hydrants.

## UTILITIES

Water is pumped from St. Cyr Lake, 7½ miles southeast of town, 2½ miles into a 2,000,000 gallon reservoir 183 feet above the town. Water is gravity-fed at 75 psi through 9.4 miles of mains and 12.93 miles of supply mains. There are 9.3

miles of sanitary sewers and 1.8 miles of storm sewers.

Three-phase 60-cycle power is supplied by Canadian Utilities Limited through a grid transmission system.

Natural gas is supplied under a franchise by the Plains Western Gas and Electrical Company Ltd. from local wells.

L.P. gas, diesel fuel and coal are available.

## EDUCATION

The St. Paul Public School District is operated by the Catholic School Board, independent of the School County but within the county inspection area. Grades 1 to 12 are taught, with French, Art, Music and Commercial subjects optional. There are 1,362 pupils and 63 teachers.

The Glen Avon Separate School District (Protestant) provides Grades 1 to 12, with French, Typing, Bookkeeping, Home Economics and Shop optional. There are 506 pupils and 22 teachers.

The Blue Quills Indian Residential School 38 miles west of town was founded in 1889. Grades 3 to 8 are taught, under direction of the Department of Indian Affairs.

## RECREATION

Of the town's 1,342 acres there are 200 acres of parks and playgrounds. There are 5 lodges, 8 service clubs and 10 associations and societies for men and women, as well as youth activities for boys and girls.

The St. Paul Public Library is sponsored by the town, Government grant and membership fees, with 6,000 books available for loan. School activities include music, art and handicrafts.

Sporting activities include curling, baseball, basketball, badminton, tennis, softball, hockey, swimming and O.T.J. Playground.

Seven theatres, halls, the arena and recreation centre offer seating capacities from 100 to 2,000. There is one movie theatre and one drive-in.

There is an annual one-day fair and a two-day baseball tournament.

## BUILDING SITES

Residential sites and industrial sites adjacent to railway and highway, can be served with utilities and can be purchased from private owners at reasonable prices.

## TRANSPORTATION, COMMUNICATION

One Railiner train each way daily to Edmonton on Canadian National Railway; Canadian Coachways bus service, two trips daily each way to Edmonton, one trip daily to Elk Point, Bonnyville and Cold Lake; Truck service, 5 lines; one taxi, one airstrip.

Canadian National Telegraphs; Alberta Government Telephones, post office; nearest radio and television stations, CKSA and CKSA-TV at Lloydminster, rebroadcast station of CFRN-TV, Edmonton; one weekly newspaper, the St. Paul Journal.

## ACCOMMODATION

There are two hotels with a total of 64 rooms and two motels with a total of 38 units.